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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/869,279

06/27/2001

Kosuke Kubota

L9289.01156

2388

7590

03/26/2004

Stevens Davis Miller & Mosher
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EXAMINER

LEE, MICHAEL

ART UNIT

PAPER NUMBER

2614

DATE MAILED: 03/26/2004

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/869,279

Applicant(s)

KUBOTA ET AL.

Examiner

M. Lee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3, 5, 6, 7, 8</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The "display sphere" or "sphere" as recited in the claims is not enabled by the specification. The specification mentions the similar terms but does not further elaborate what it is. Based on the disclosure, the "display sphere" or "sphere" as claimed cannot be comprehended. For rejection purpose, the examiner assumes that the "display sphere" or "sphere" is the actual image display area or surface of the display device claimed. Clarification is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims rejected under 35 U.S.C. 102(b) as being anticipated by Nguyen (5,555,002).

Regarding claim 1, Nguyen discloses an image display control system for displaying high resolution image on a low resolution monitor showing a control circuit 20 for selecting a portion of the incoming video data signal 15 having a size equals to the area of a display device to be sampled (col. 2, lines 54-57), which meets the first designation device as claimed, and a video RAM buffer 19 for extracting and storing sampled video data and outputting the video data to a display monitor 16, which meets the picture display device as claimed.

Regarding claim 2, Nguyen states that the initial display location of the central portion of the original high-resolution image (col. 3, lines 22-26). In order to implement such initialization, the control device 20 stores initial control values or parameters beforehand both in the Y and X direction (col. 6, lines 61-68, and col. 4-6). Hence, Nguyen meets the claimed "said first designation device stores a display sphere of a picture beforehand".

Regarding 3, the image display on the LCD panel can be panned by the user (col. 28-31), which meets the "continuously changes a display sphere" limitation as claimed.

Regarding claim 4, the video RAM 19 and display panel 16 as discussed above meet the first memory device and display device as claimed, respectively.

Regarding claim 5, Nguyen further shows a control arrangement 40 and a column or pixel control arrangement 50 for determining the area or beginning and

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ending of a picture area to be displayed on the LCD panel (col. 4, lines 18-26), which meet the starting and ending positions generated by the designation device as claimed.

Regarding claim 6, the line control arrangement 40 in Nguyen meets the "vertical direction" limitation as claimed since the lines being controlled by the control arrangement 40 are in the vertical direction.

Regarding claim 7, the column or pixel control arrangement 50 in Nguyen meets the "horizontal direction" limitation as claimed because the columns or pixels being controlled by the pixel control arrangement 50 are in the horizontal direction.

Regarding claim 8, in addition of above, the LCD display panel 16 in Nguyen inherently includes counters for counting both the vertical and horizontal sync signals in order to display the extracted video data on the LCD panel. The sync signals in the LCD display panel are basically derived from the input video data in order to have an uninterrupted and smooth video display operation. Therefore, the "said picture display device counts a number of pieces of synchronization of a synchronization signal indicating input timing of picture data" limitation as claimed is met by Nguyen.

Regarding claim 9, in addition of similar reasons as discussed above, please note col. 6, lines 61-67, col. 3, lines 22-27.

Regarding claim 10, see similar rejections as recited above. The second designation device as claimed is met by the pixel control circuit 20, and the second memory device as claimed is met by the video RAM 19.

Regarding claim 11, see rejection to claim 2.

Regarding claim 12, see rejection to claim 3.

Regarding claim 13, as illustrated in Figures 4-7, the display can display different portions of the original picture. This also means that the RAM 19 is able to store different portions of the image data at different time.

Regarding claims 15, 16, see Figure 1.

Regarding claim 18, the current process claim is rejected for the similar reasons as recited for apparatus claims above. In addition, the counting step is also met by the counters 42, 44, 52, and 54, the displaying step is met by the LCD display operation. It should be noted that the starting and ending points of the picture data in Nguyen is always within the display area or the "sphere" of the LCD panel.

Regarding claim 19, similar to reasons recited above, the designating step is met by the control circuit 20, and the affixing step is met by the video RAM 19 and LCD display panel 16. It should be noted that when the image is not being panned, the picture data is considered affix.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Martin et al. (6,256,061) shows a user selectable image display.

Tanaka et al. (4,779,084) shows a display memory.

Mattison (5,818,417) shows a high resolution to LCD display conversion.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Lee whose telephone number is **703-305-4743**.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John Miller**, can be reached at **703-305-4795**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

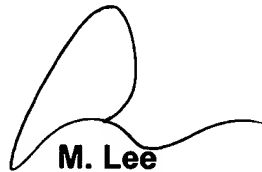
Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



M. Lee
Primary Examiner
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March 19, 2004